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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☒ Declaration  
Submitted  
with Initial  
Filing

OR

☐ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number 6059.11003

First Named Inventor Martin J. Murphy

**COMPLETE IF KNOWN**

Application Number

Filing Date

Art Unit

Examiner Name

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

LIGHTNING DETECTION AND DATA ACQUISITION SYSTEM

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/01 (10-01)

Approved for use through 10/31/2002. QMB 0661-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION — Utility or Design Patent Application**

Direct all correspondence to: <input type="checkbox"/>		Customer Number or Bar Code Label		OR <input checked="" type="checkbox"/> Correspondence address below	
Name William A. Birdwell Durando Birdwell & Janke, P.L.C.					
Address 2929 E. Broadway Blvd.					
City Tucson		State AZ		ZIP 85716	
Country US		Telephone 520-881-9442		Fax 520-881-9448	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Martin J.		Family Name or Surname Murphy	
Inventor's Signature <i>Martin J. Murphy</i>				Date 2-12-2002	
Residence: City Tucson		State AZ		Country USA	
City		State		Citizenship USA	
Mailing Address 2705 E. Medina Road					
City Tucson		State AZ		ZIP 85706	
Country USA		Citizenship USA			
NAME OF SECOND INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Kenneth L.		Family Name or Surname Cummins	
Inventor's Signature <i>Kenneth L. Cummins</i>				Date 2/12/2002	
Residence: City Tucson		State AZ		Country USA	
City		State		Citizenship USA	
Mailing Address 2705 E. Medina Road					
City Tucson		State AZ		ZIP 85706	
Country USA		Citizenship USA			
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

Please type a plus sign (+) inside this box →



PTO/SB/02A (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

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## DECLARATION

**ADDITIONAL INVENTOR(S)**  
**Supplemental Sheet**  
Page 3 of 3

**Name of Additional Joint Inventor, if any:**

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Alburt E.

Pifer

**Inventor's  
Signature**

*Alburt E. Pifer*

**Date** 2-12-02

**Residence: City**

Tucson

**State**

AZ

**Country**

USA

**Citizenship**

USA

**Mailing Address**

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**Mailing Address**

**City**

Tucson

**State**

AZ

**ZIP**

85706

**Country**

USA

**Name of Additional Joint Inventor, if any:**

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

**Inventor's  
Signature**

**Date**

**Residence: City**

**State**

**Country**

**Citizenship**

**Mailing Address**

**Mailing Address**

**City**

**State**

**ZIP**

**Country**

**Name of Additional Joint Inventor, if any:**

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

**Inventor's  
Signature**

**Date**

**Residence: City**

**State**

**Country**

**Citizenship**

**Mailing Address**

**Mailing Address**

**City**

**State**

**ZIP**

**Country**

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PTO/SB/81 (02-01)

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## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	
Filing Date	
First Named Inventor	Martin J. Murphy
Title	Lightning Detection*
Group Art Unit	
Examiner Name	
Attorney Docket Number	6059.11003

I hereby appoint:

☐ Practitioners at Customer Number

OR

☒ Practitioner(s) named below:

Name	Registration Number
William A. Birdwell	27,181
Antonio R. Durando	28,409
Garth E. Janke	40,662
Gavin J. Milczarek-Desai	45,801

Place Customer  
Number Bar Code  
Label here

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

OR

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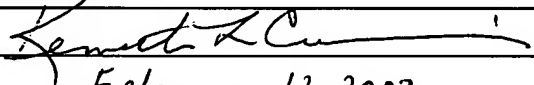
<input checked="" type="checkbox"/> Firm or Individual Name	William A. Birdwell				
Address	Durando Birdwell & Janke, P.L.C.				
Address	2929 E. Broadway Blvd.				
City	Tucson	State	AZ	Zip	85716
Country	USA				
Telephone	520-881-9442	Fax	520-881-9448		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

Name	Global Atmospheric, Inc. by its V.P. of R&D, Kenneth L. Cummins
Signature	
Date	February 12, 2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

\*and Data Acquisition System